

SOLD - DEC 1

Work Order ID 152759

152759

Page 1

Monday, November 07, 2016 3:09:17 PM

Item ID: 647.3702 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016 Start Qty: 1.00 ** Cust Item ID:

Required Date: 11/30/2016 Req'd Qty: 1.00 ** Customer:

Reference:

Approvals: Process Plan: ✓ **DAS 21 9-89** Date: 11/11/9 Tooling: _____ Date: _____ Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								

100

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.3702

DAS 28 9-89

NOV 28 2016

110

110

Pick Kit

0.00

Packaging

Memo

0.00

Packaging

DAS 6 9-89**DAS 27 9-89**

NOV 28 2016

120

120

QC4- 100% Inspect kits for completeness

0.00

QC

Memo

0.00

Quality Control

DAS 28 9-89

NOV 28 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER :			

Work Order ID 152759

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152759

Page 2

Item ID: 647.3702 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 412 Cable Cutter System, High
Start Date: 11/18/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 11/30/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.3702								
	Location: _____								
	<i>fg 101</i>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

DAS DAS
28 27
9-89 9-89
NOV 28 2016

DAS
21
9-89
NOV 29 2016

DAS
21
9-89
NOV 29 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

Monday, November 07, 2016 3:09:16 PM

Page 1

Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 *601 3082* RIVET 647.3903 *647 3903* Deflector Assembly		Purchased	No				Each	0.0000	**	6		NOV 7 8 2016	IS 6 38 DAS 27 9-89
		Manufactured	No				Each	5.0000	**	1		NOV 2 8 2016	AS 6 38 DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					cck024			5					
					147126			1					
					150883			4					
647.3801 *647 3801* 412 Upper Cutter Assy		Manufactured	No			110	Each	1.0000	**	1		NOV 2 8 2016	DAS 6 38 DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK028			1					
					124728			1					
647.3804 *647 3804* Lower Cutter Assy High		Manufactured	No			110	Each	2.0000	**	1		NOV 2 8 2016	DAS 6 38 DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK027			2					
					147206			2					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Picklist Print

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Page 2

Work Order ID: 152759

152759

Parent Item: 647.3702

647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4410
647 4410

Rail

DAS
28
9-89

Manufactured No

110 Each

8.0000

1 1

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK081

8

120986

8

647.4010
647 4010

Wiper Deflector RH

DAS
28
9-89

Manufactured No

110 Each

12.0000

1 1

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck060

12

120740

12

647.4011
647 4011

Wiper Deflector LH

DAS
28
9-89

Manufactured No

110 Each

10.0000

1 1

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck060

10

120741

10

647.4110
647 4110

Doubler

DAS
28
9-89

Manufactured No

110 Each

9.0000

1 1

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK080

9

120987

9

647.4111
647 4111

Doubler

DAS
28
9-89

Manufactured No

110 Each

9.0000

1 1

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

9

120743

9

Monday, November 07, 2016 3:09:16 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Picklist Print

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Page 3

Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4112
647 4112
Clip

Manufactured No

110 Each 7.0000 1 1

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK112

7

145327

7

647.4113
647 4113
Clip

Manufactured No

110 Each 8.0000 1 1

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK112

8

145488

8

647.4114
647 4114
Shim

Manufactured No

110 Each 23.0000 2 2

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK112

23

120746

23

647.4115
647 4115
Shim

Manufactured No

110 Each 8.0000 2 2

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK112

8

120747

8

647.4116
647 4116
Shim

Manufactured No

110 Each 13.0000 1 1

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK112

13

121064

13

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition																					
								Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____																			

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4210

Manufactured No

110 Each

8.0000

1 1

647 4210

Bracket LH

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

8

120749

1

121086

7

**

NOV 28 2016 DAS 6 27
9-89 9-89

647.4211

Manufactured No

110 Each

8.0000

1 1

647 4211

Bracket RH

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK112

8

121134

8

**

NOV 28 2016 DAS 6 27
9-89 9-89

647.4311

Manufactured No

110 Each

7.0000

1 1

647 4311

RH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK073

7

126397

7

**

NOV 28 2016 DAS 6 27
9-89 9-89

647.4310

Manufactured No

110 Each

11.0000

1 1

647 4310

LH Lower Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

cck066

11

126395

11

**

NOV 28 2016 DAS 6 27
9-89 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																							
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																												
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																												
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																												
Large Fab ☐	Composite ☐	Supplier ☐																																																													
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																																																								
Description Work Order Deviation				Disposition																																																											
								Completed By																																																							
								Lead hand / Supervisor Approval Verification																																																							
								QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
OTHER : _____																																																															

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

647.4312

Manufactured No

110

Each

5.0000

1 1

647 4312

LH Upper Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK67

5

147045

5

110

Each

5.0000

1 1

647.4313

Manufactured No

647 4313

RH Upper Strut

DAS
28
9-89

Location

Loc Qty

Loc Code

cck068

5

147046

5

110

Each

1,519.000

34 34

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

1389

M133769

89

M135058

1300

ST263

130

M135603

130

110

Each

2,822.000

157 157

NAS1149F0332P

Purchased

No

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

276

m133709

276

ST260a

2000

m135948

2000

ST262

546

m135544

546

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-07

Purchased

No

110

Each

194.0000

12

12

MS27039-1-07

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

2

125654

2

ST281

192

m135948

192

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

MS27039-1-10

Purchased

No

110

Each

513.0000

42

42

MS27039-1-10

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

17

m129541

17

over006

300

m135774

300

ST280

196

m135603

196

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

MS27039-08-08

Purchased

No

110

Each

327.0000

16

16

MS27039-08-08

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

over006

200

m130325

200

ST278

119

m130113

119

**

NOV 28 2016

DAS
6
9-89

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

269.0000

14

14

MS27039-1-09

Screw

**

NOV 7 8 2016

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

55

124859

55

ST280

180

m111650

2

m125646

20

m125654

53

m135056

105

MS27039-08-11

Purchased

No

110

Each

373.0000

2

2

MS27039-08-11

SCREW

**

NOV 7 8 2016

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

over006

250

m135864

250

ST278

123

m134676

123

MS24694-S49

Purchased

No

110

Each

175.0000

1

1

MS24694-S49

Screw

**

NOV 2 8 2016

DAS 27
6 9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

ST284

175

m129499

100

m129702

75

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Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. _____		Rework ☐		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐		
NCR No. _____		Scrap ☐		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
		Suspected Unapproved ☐		Large Fab ☐	Composite ☐	Supplier ☐			
Date : _____		Step # : _____		QTY Effective : _____				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-C53

Purchased

No

110

Each

26.0000

8

8

MS24694-C53

Screw

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST285

26

m129702

26

601.3073

Purchased

No

110

Each

5.0000

1

1

601 3073

Connector

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

CCK099

5

M135532

5

AN3-4A

Purchased

No

110

Each

246.0000

3

3

AN3-4A

Bolt

**

NOV 28 2016

DAS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST350

246

m135704

246

AN3-11A

Purchased

No

110

Each

112.0000

8

8

AN3-11A

Bolt

**

NOV 28 2016

DASS 6 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

over003

100

m135767

100

ST349

12

m135390

12

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : _____							

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

AN3C10A Purchased No

110 Each 10.0000 2 2

AN3C10A

Bolt

**

NOV 28 2016

DAS 27
6 9-89

Location

Loc Qty

Loc Code

ST349

10

m135056

10

2

CR3212-4-2 Purchased No

110 Each 35.0000 6 6

CR3212-4-2

Cherry Rivet

**

NOV 28 2016

DAS 27
6 9-89

Location

Loc Qty

Loc Code

ST320

35

M130388

35

6

CR3212-4-3 Purchased No

110 Each 100.0000 17 17

CR3212-4-3

Cherry Rivet

**

119017x16 NOV 28 2016

DAS 27
6 9-89

Location

Loc Qty

Loc Code

CCK003

100

m135408

100

134943x1

CR3212-4-4 CR3212-4-04 Purchased No

110 Each 0.0000 4 4

CR3212-4-4

CHERRY RIVET

**

134943 NOV 28 2016

DAS 27
6 9-89

CCR264SS3-04 Purchased No

110 Each 272.0000 12 12

CCR264SS3-04

Rivet

**

129702 NOV 28 2016

DAS 27
6 9-89

Location

Loc Qty

Loc Code

CCK003

272

123785

272

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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OTHER : _____																																																																							

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

110

Each

134.0000

16

16

CCR264SS-3-03

Cherry Rivet

**

13682

NOV 28 2016

DAS 6

9-89

DAS 27

9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

LG001

87

m128606

25

m134023

62

ST321

47

m135127

47

CR3213-4-2

Purchased

No

110

Each

250.0000

13

13

CR3213-4-2

Cherry Rivet

**

NOV 28 2016

DAS 6

9-89

DAS 27

9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK003

50

m134058

50

over003

100

m135704

100

ST320

100

m135979

100

CR3213-4-3

Purchased

No

110

Each

417.0000

32

32

CR3213-4-3

Rivet, Cherry

**

NOV 28 2016

DAS 6

9-89

DAS 27

9-89

DAS 28
9-89

Location

Loc Qty

Loc Code

CCK003

300

m135470

100

m136042

200

ST319

117

123301

7

m131340

10

m135135

100

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-4 Purchased No

110 Each 441.0000 19 19

CR3213-4-4

Rivet, Cherry

**

NOV 7 8 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK003

400

M135408

100

M135536

300

ST319

41

M130388

35

M134962

6

19

DAS 28
9-89

CR3213-4-5 Purchased No

110 Each 225.0000 42 42

CR3213-4-5

Rivet

**

NOV 7 8 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

42

DAS 28
9-89

CR3213-4-8 Purchased No

110 Each 44.0000 4 4

CR3213-4-8

Rivet

**

NOV 2 8 2016

DAS 27
9-89

Location

Loc Qty

Loc Code

ST319

44

123785

44

4

DAS 28
9-89

MS21042-3 MS21042L3 Purchased No

110 Each 0.0000 79 79

MS21042-3

Nut

**

NOV 2 8 2016

DAS 27
9-89

MS21042-08 MS21042L08 Purchased No

110 Each 0.0000 18 18

MS21042-08

USE MS21042L08

**

NOV 2 8 2016

DAS 27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____									

Picklist Print

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Work Order ID: 152759

152759

Parent Item: 647.3702

647 3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

55.0000

6

6

MS21047L06

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

50

m135671

50

ST303

5

m131340

5

MS21047L08

Purchased

No

110

Each

24.0000

6

6

MS21047L08

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

24

m129702

4

m135566

20

MS21047-3

Purchased

No

110

Each

99.0000

4

4

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

99

m135603

9

m135774

90

MS21071L3

Purchased

No

110

Each

115.0000

4

4

MS21071L3

ANCHOR NUT

DAS
28
9-89

Location

Loc Qty

Loc Code

S299

100

125654

100

ST299

15

m129702

15

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
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OTHER : _____					

Picklist Print

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Work Order ID: 152759

152759

Parent Item: 647.3702

647.3702

Parent Item Name: 412 Cable Cutter System, High

Start Date: 11/18/2016

Required Date: 11/30/2016

Start Qty: 1.00

Required Qty: 1.00

601.3083 Manufactured No

110

Each

7.0000

1

1

601.3083

Adhesive Rubber Seal

**

NOV 28 2016

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck009

7

150862

6

m134349

1

601.1012 600.1012 Purchased No

110

Each

0.0000

1

1

601.1012

Sealant (One 6 oz)

**

135840

NOV 28 2016

DAS
6
9-89

DAS
28
9-89

601.2045 Purchased No

110

Each

12.0000

1

1

601.2045

RTV (LOCTITE 598) McMaster p/n: 6641A41

**

136171

NOV 28 2016

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK096

4

m135628

4

GA

8

m134260

8

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : _____							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐				
Misidentified ☐	Past Due ☐	OTHER : _____			



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]*

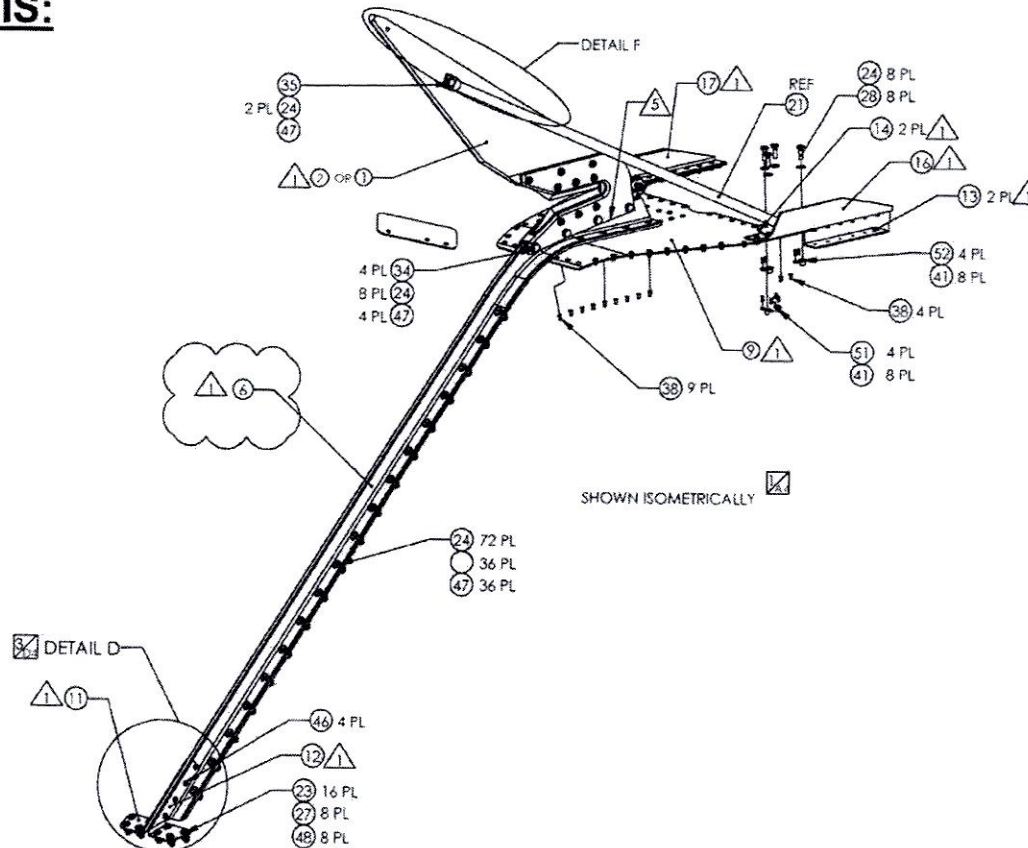
QC

EFF. NEXT ORDER

REASON: DELETED F/N 57, REVISED F/N 6.

ECR: N/A

SHEET 1, ZONE C5 IS:



REFERENCE ONLY

ACTION ITEM:
1.

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF		
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY		
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY						
DOCUMENTS EFFECTED:							CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

Work Order ID 152759

Thursday, November 24, 2016 2:39:34 PM

152759

Page 1

Item ID: 647.3702 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 412 Cable Cutter System, High
Start Date: 11/18/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 11/30/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.3702

DAS
21
9-59

NOV 25 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

REFERENCE ONLY

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 IF REQD, USE F/N 32 TO CONNECT CO-AXIAL CABLE.
- 3 VENDOR : ONLINECOMPONENTS.COM
- 4 AT CUSTOMERS OPTION, INSTALL F/N 56 BY MATCH DRILLING ONTO F/N 1 OR F/N 2.
- 5 APPLY F/N 55 TO FAYING SURFACES.
- 6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

DETAIL C

4/203

647.3701 SHOWN

REF	REF	REF	REF	56	647.3701	GPS MOUNT KIT	
A/R	A/R	A/R	A/R	55	601.2045	RTV	LOCITE 508
A/R	A/R	A/R	A/R	54	601.1012	SEALANT	PR-1225
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	NIL-6-3065
4	4	4	4	52	601.2957	NUTPLATE	MS2107112
4	4	4	4	51	600.0795	NUTPLATE	MS2104713
6	6	6	6	50	601.3066	NUTPLATE	MS21047108
6	6	6	6	49	601.3065	NUTPLATE	MS21047106
18	18	18	18	48	601.2973	LOCKNUT	MS21042108
79	79	79	79	47	601.2943	LOCKNUT	MS21042103
4	4	4	4	46	601.2364	CHERRY RIVET	CR3213-4-6
28	28	42	42	45	601.1183	CHERRY RIVET	CR3213-4-6
16	16	19	19	44	601.1915	CHERRY RIVET	CR3213-4-4
24	24	32	32	43	601.0790	CHERRY RIVET	CR3213-4-0
31	31	13	13	42	601.1039	CHERRY RIVET	CR3213-4-2
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MATL SPEC.

UNINCORPORATED ECN(s)

02328, 04845, 04981

REV	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION PER		R/C
2	FINAL RELEASE	09-24-09	P. BAK V/O

16	16	16	16	41	601.2207	NUTPLATE RIVET	CCP26455-3-03
12	12	12	12	40	601.2491	NUTPLATE RIVET	CCP26455-3-04
7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
17	17	17	17	38	601.1065	CHERRY RIVET	CR3212-4-3
5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
2	2	2	2	35	601.1874	BOLT	AN8C11DA
8	8	8	8	34	601.2826	BOLT	ANS-11A
3	3	3	3	33	601.2823	BOLT	ANS-11A
1	1	1	1	32	601.3073	CONNECTOR	MS24440
8	8	8	8	31	601.2419	SCREW	MS24494-253
1	1	1	1	30	601.3070	SCREW	MS24494-549
2	2	2	2	29	601.2893	SCREW	MS27039-0811
14	14	14	14	28	601.3069	SCREW	MS27039-1-09
16	16	16	16	27	601.2263	SCREW	MS27039-0808
42	42	42	42	26	601.1365	SCREW	MS27039-1-10
12	12	12	12	25	601.2198	SCREW	MS27039-1-07
157	157	157	157	24	601.1607	WASHER	NAS11499-03039
34	34	34	34	23	601.2764	WASHER	NAS11499-08329
1	1	1	1	22	647.4313	RH UPPER STRUT	
1	1	1	1	21	647.4312	LH UPPER STRUT	
1	1	1	1	20	647.4310	LH LOWER STRUT	
1	1	1	1	19	647.4311	RH LOWER STRUT	
1	1	1	1	18	647.4212	PLATE	
1	1	1	1	17	647.4211	BRACKET RH	
1	1	1	1	16	647.4210	BRACKET LH	
1	1	1	1	15	647.4116	SHIM	
2	2	2	2	14	647.4115	SHIM	
2	2	2	2	13	647.4114	SHIM	
1	1	1	1	12	647.4113	CLIP	
1	1	1	1	11	647.4112	CLIP	
1	1	1	1	10	647.4111	DOUBLER	
1	1	1	1	9	647.4110	DOUBLER	
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH	
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH	
1	1	1	1	6	647.3915	DEFLECTOR	
1	1	1	1	5	647.4410	RAIL	
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
					647.3702	412 CABLE CUTTERS KIT HIGH	
					647.3701	412 CABLE CUTTERS KIT LOW	

QTY	3704, 3703, 3702, 3701	FIND #	
NEXT ASSY (S)			
ORIGINAL DATE	09-24-09	CHECKED	D. BARNER
DRAWN BY	J. JACKSON	DESIGNED BY	D. BARNER
DESIGNED APPROVAL		DATE	09-24-09
CONTRACT NO.			
UNITS: DIMENSIONS IN INCHES DIMENSIONS ARE BLANKS 2 PLACES DECIMALS = .01 DIMENSIONS FROM ANGLES & E			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92066-3512 (760) 724-5300		412 CABLE CUTTERS KIT	
REV	3704	REV	N/C
SCALE	NONE	SHEET	1 OF 5